

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/008716 A2

(51) International Patent Classification⁷: **H01J 35/00**

(21) International Application Number:
PCT/IB2004/002324

(22) International Filing Date: 15 July 2004 (15.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/488,675 18 July 2003 (18.07.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

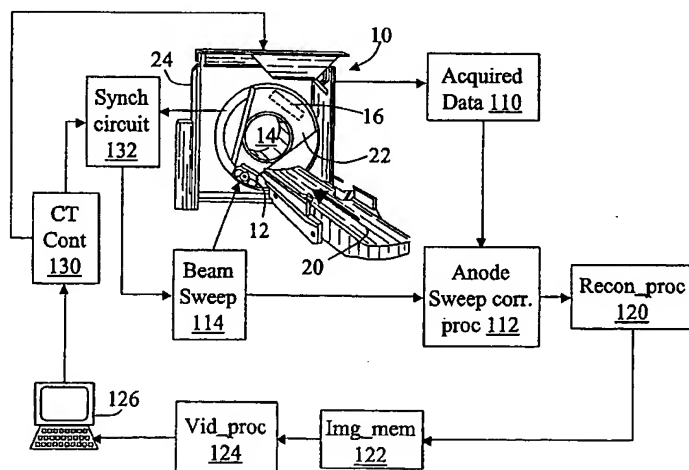
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CYLINDRICAL X-RAY TUBE FOR COMPUTED TOMOGRAPHY IMAGING



(57) Abstract: A computed tomography imaging system includes an x ray tube (12, 212) that injects an x ray conebeam into an examination region (14). The x ray tube (12, 212) includes a rotating cylindrical anode (30, 230, 330, 430) having a target outer surface region. The cylindrical anode (30, 230, 330, 430) rotates about a longitudinally aligned cylinder axis (32). Electrons are accelerated toward a selected spot on the target outer surface region of the cylindrical anode (30, 230, 330, 430). Electrostatic or electromagnetic deflectors (64, 68) sweep the selected spot back and forth across the target outer surface region of the cylindrical anode (30, 330, 430). The imaging system further includes a rotating gantry (22) that revolves the x ray tube (12, 212) about the examination region (14) around a rotation axis that is parallel to the cylindrical axis, and an x-ray detector (16) arranged to detect x rays after said x rays pass through the examination region (14).

WO 2005/008716 A2

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(43) International Publication Date
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PCT

(10) International Publication Number
WO 2005/008716 A3

(51) International Patent Classification⁷: **H01J 35/10**, 35/30

(21) International Application Number:
PCT/IB2004/002324

(22) International Filing Date: 15 July 2004 (15.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
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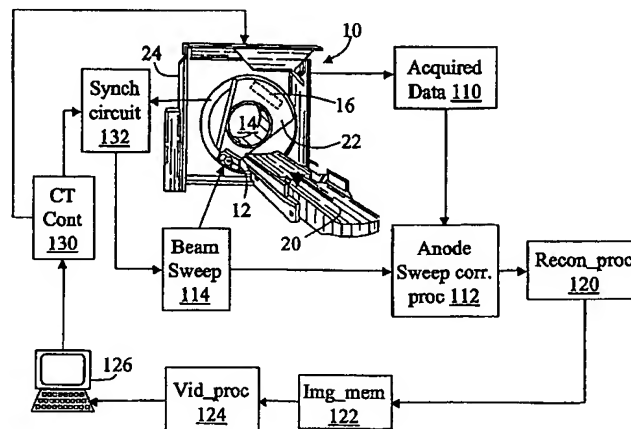
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Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

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WO 2005/008716 A3



(88) Date of publication of the international search report:

11 August 2005

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